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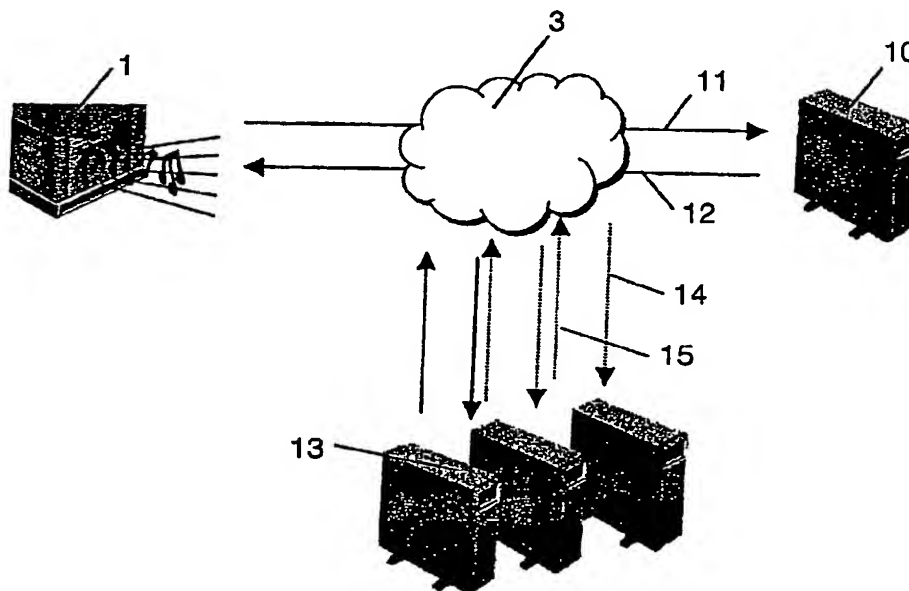
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[Continued on next page]

(54) Title: **AUTOMATIC DISCOVERING OF WEB SERVICES**



(57) Abstract: A method for automatically discovering web services comprises querying a known UDDI server address containing a list of web services, identifying from the list suitable web services, and automatically downloading at least one machine readable description of a web service. Apparatus for automatically discovering web services is also described, which comprises communicating means for querying a known UDDI server address containing a list of web services and identifying from the list suitable web services, the communicating means arranged to automatically download at least one machine readable description of a web service.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/00943

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 163 316 A (KILLIAN ROBERT T) 19 December 2000 (2000-12-19) column 3, line 59 -column 4, line 11 column 9, line 29 -column 9, line 57 figures 1,3	1-18
Y	--- "UDDI Technical White Paper" XP002230398 page 2 -page 5	1-18
A	--- DRURY G M: "DIGITAL DELIVERY - NEW SERVICE POSSIBILITIES" ABU TECHNICAL REVIEW, ASIAN BROADCASTING UNION, KUALA LUMPUR, MW, no. 184, September 1999 (1999-09), pages 3-10, XP000901421 ISSN: 0126-6209 page 5, paragraph 6 -page 6, paragraph 2 --- -/--	1-18

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,Y	<p>LEYMANN F ET AL: "WEB SERVICES AND BUSINESS PROCESS MANAGEMENT"</p> <p>IBM SYSTEMS JOURNAL, IBM CORP. ARMONK, NEW YORK, US,</p> <p>vol. 41, no. 2, 2002, pages 198-211,</p> <p>XP001116237</p> <p>ISSN: 0018-8670</p> <p>page 210, paragraph 5</p> <p>figure 4</p> <p>-----</p>	1-18

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6163316	A	19-12-2000	EP	0854645 A2	22-07-1998
			JP	10207914 A	07-08-1998
			SG	67469 A1	21-09-1999
			TW	435046 B	16-05-2001
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